CAN Accessories

for CSM measurement modules

CSM CAN Accessories

A wide range of accessories is available for CSM measurement modules and data loggers, such as the USB to CAN interface CSMcan, system and signal cables, plugs, sockets, mounting material, antennas, as well as memory cards.

This document provides an overview on accessories for CSM's CAN measurement modules. Further accessory datasheets are available for ECAT measurement modules, UniCAN data loggers and exhaust measurement technology.

The system cables, for the engine compartment-mounted CSM MiniModules (CAN bus and EtherCAT®/ Ethernet networking as well as power supply), are specifically made for this purpose. They are designed for high interference resistance and the lowest possible internal resistance of the supply lines as well as wide operating temperature ranges. The cables are flexible and well chemical-resistant including fuel and oil.

Do you have special wishes and requirements?
Please do not hesitate to contact us.

Contents

CAN Cables and Connectors

Interface Cables

K85

IC, L0B 5p, DS 9p / B

Connection cable between CAN socket/measurement module and CAN interface; cable includes a 1 m power supply line

Connectors
A Plug   LEMO 0B   5-pole   code G
B Socket   D-SUB   9-pole   and banana plug

ART0201077	K85-0060	Length: 0.6 m

K73

IC, L0B 5p, DS 9p / B

Connection cable between CAN socket/measurement module and CAN interface; cable includes a 1 m power supply line

Connectors
A Plug   LEMO 0B   5-pole   code G
B Socket   D-SUB   9-pole   and banana plug

ART0201051	K73-0250	Length: 2.5 m
ART0201074	K73-0300	Length: 3 m
ART0201071	K73-0500	Length: 5 m
ART0201524	K73-1000	Length: 10 m
ART0201545	K73-2000	Length: 20 m

K176

IC, L0B 5p, DS 9p / B, R

Connection cable for CAN interfaces; cable includes a 1 m power supply line and a 120 Ohm CAN termination resistor (yellow cable marking)

Connectors
A Plug   LEMO 0B   5-pole   code G
B Socket   D-SUB   9-pole   and banana plug

ART1050101	K176-0060	Length: 0.6 m
ART1050102	K176-0250	Length: 2.5 m
ART1050103	K176-0500	Length: 5 m
ART1050104	K176-1000	Length: 10 m

K85, K73, K176

K181

IC, L0B 5p, open
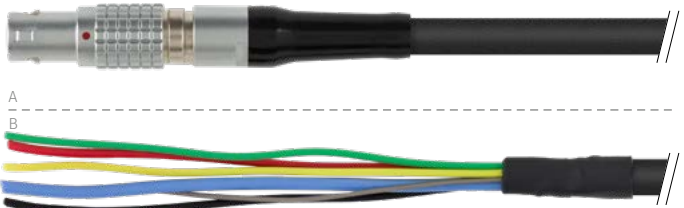
Connection cable for CAN interfaces; including power supply wires

Connectors
A Plug   LEMO 0B   5-pole   code G
B open cable end

| ART1050105	K181-0060	Length: 0.6 m
ART1050112	K181-0500	Length: 5 m

K191 (replacement for K77)
IC, L0B 5p, L1B 8p / B, R

Connection cable for ETAS CAN interfaces ES690, ES590/91 and ES592/93-D/95 including 1 m power supply line and 120 Ohm CAN termination resistor

Connectors
A Plug   LEMO 0B   5-pole   code G
B Plug   LEMO 1B   8-pole   code C and banana plug

ART1050108	K191-0060	Length: 0.6 m
ART1050109	K191-0250	Length: 2.5 m
ART1050110	K191-0500	Length: 5 m
ART1050111	K191-1000	Length: 10 m

A
B
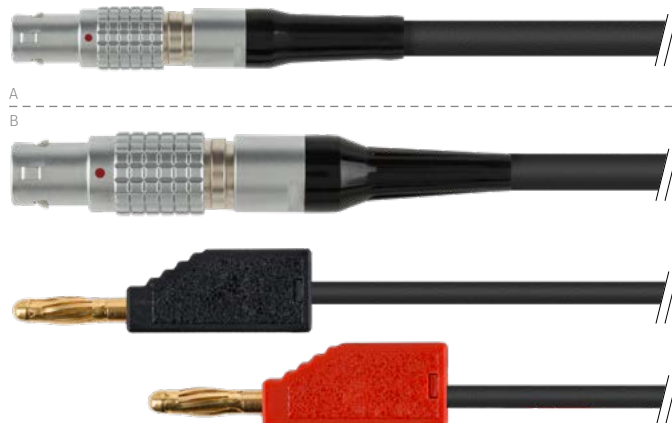
K45
IC, DS 9p, L1B 8p

Connection cable for ETAS CAN interfaces ES690, ES590/91 and ES592/93-D/95

Connectors
A Plug   D-SUB   9-pole
B Plug   LEMO 1B   8-pole   code C

ART0202049	K45-0100	Length: 1 m
ART0202048	K45-0200	Length: 2 m
ART1200101	K45-0500	Length: 5 m

A
B

K623
IC, L0B 5p, DS 9p

Connection cable for CAN interfaces; power supply via D-SUB included

Connectors
A Plug   LEMO 0B   5-pole   code G
B Socket   D-SUB   9-pole

ART1050802	K623-0250	Length: 2.5 m

A
B

Connection Cables

K92
CC, L0B 5p, L0B 5p

Daisy chain cable for cascading
CAN measurement modules

Connectors
A	Plug	LEMO 0B	5-pole	code G
B	Plug	LEMO 0B	5-pole	code G

ART0201133	K92-0015	Length: 0.15 m
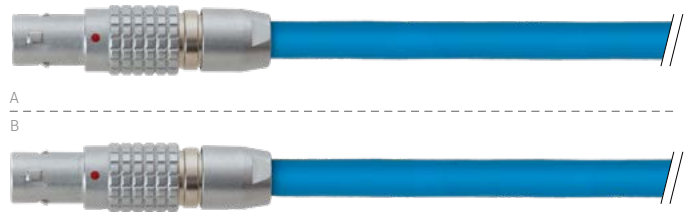
K70
CC, L0B 5p, L0B 5p

Daisy chain cable for cascading
CAN measurement modules

Connectors
A	Plug	LEMO 0B	5-pole	code G
B	Plug	LEMO 0B	5-pole	code G

|		
ART0201070	K70-0025	Length: 0.25 m
ART0201054	K70-0050	Length: 0.5 m
ART0201055	K70-0100	Length: 1 m
ART0201056	K70-0200	Length: 2 m
ART0201052	K70-0300	Length: 3 m
ART0201057	K70-0500	Length: 5 m
ART0201058	K70-1000	Length: 10 m
ART1040100	K70-2000	Length: 20 m
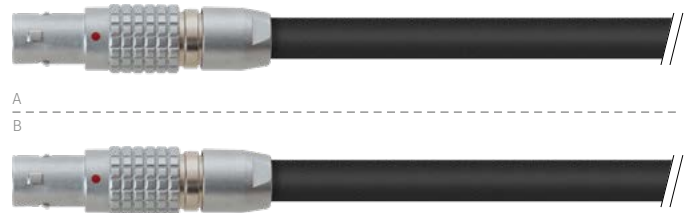
K72
CC, L0B 5p, L0B 5p / B

Daisy chain cable for cascading CAN measurement modules,
including 3 m power supply line for intermediate power supply

Connectors
A	Plug	LEMO 0B	5-pole	code G
B	Plug	LEMO 0B	5-pole	code G and banana plug

ART0201060	K72-0250	Length: 2.5 m
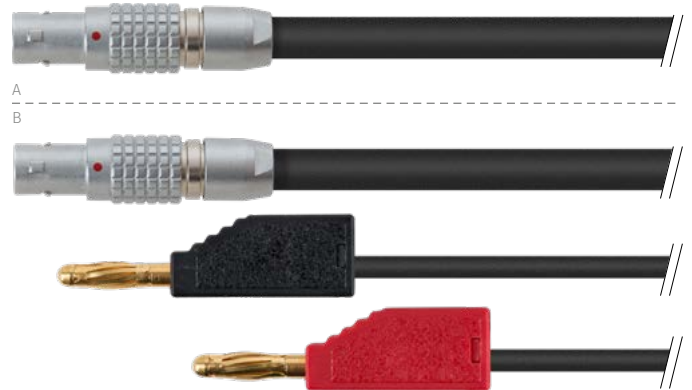
Cable Coupler

K71
CC, L0B 5p, L0B 5p

Cable coupler for connecting two CAN connector cables

Connectors
A	Socket	LEMO 0B	5-pole	code G
B	Socket	LEMO 0B	5-pole	code G

ART0201059	K71-0020	Length: 0.2 m
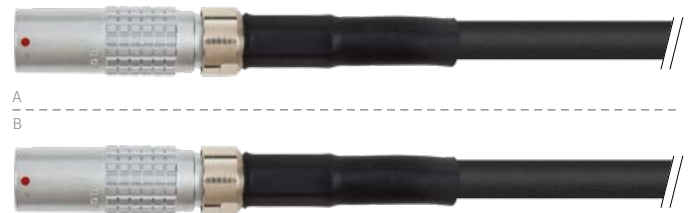
Sensor Cables

K134

SC, L0B 6p, open

Cable between signal input/measurement module and sensor

Connectors
A Plug   LEMO 0B   6-pole   code A
B open cable end

ART1060100	K134-0025	Length: 0.25 m
ART1060109	K134-0100	Length: 1 m
ART0201202	K134-0200	Length: 2 m
ART0201206	K134-0300	Length: 3 m
ART1060105	K134-0500	Length: 5 m
ART1060106	K134-0800	Length: 8 m

K106

SC, L0B 6p, B

Cable between signal input/measurement module and sensor with positive and negative sensor excitation

Connectors
A Plug   LEMO 0B   6-pole   code A
B Banana plugs and connectors

ART0201169	K106-0120	Length: 1.2 m

K100

SC, L0B 6p, B

Cable between signal input/measurement module and sensor with positive sensor excitation

Connectors
A Plug   LEMO 0B   6-pole   code A
B Banana plugs and connectors

ART0201150	K100-0120	Length: 1.2 m
ART0201167	K100-0300	Length: 3 m
ART1060101	K100-0500	Length: 5 m

K114
SC, L0B 6p, B, R

Cable between signal input/measurement module and a sensor with integrated shunt for measurements with 20 mA sensors

Connectors
A Plug   LEMO 0B   6-pole   code A
B Banana plugs and connectors

ART0201178	K114-0120	Length: 1.2 m

K110
SC, L0B 6p, BNC

Cable between signal input/measurement module and sensor

Connectors
A Plug   LEMO 0B   6-pole   code A
B Plug   BNC

ART0201155	K110-0020	Length: 0.2 m
ART0201154	K110-0120	Length: 1.2 m
ART1060102	K110-0200	Length: 2 m
ART1060103	K110-0500	Length: 5 m

K622
SC, L0B 6p, L0B 6p

Sensor extension cable

Connectors
A Plug   LEMO 0B   6-pole   code A
B Socket   LEMO 0B   6-pole   code A

ART1060108	K622-0200	Length: 2 m

K356 /350
SC, L1B 8p, open, 1/4, TEDS

Quarter bridge completion cable (350 Ohm) in 3-wire connection with preconfigured TEDS

Connectors
A Plug   LEMO 1B   8-pole   code G
B open cable end

ART1420101	K356-0200 /350	Length: 2 m

K356 /120
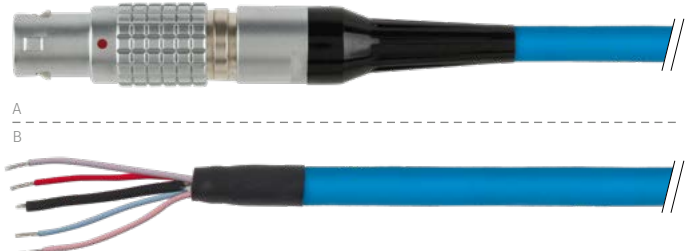SC, L1B 8p, open, 1/4, TEDS

Quarter bridge completion cable (120 Ohm) in 3-wire connection with preconfigured TEDS

Connectors
A Plug   LEMO 1B   8-pole   code G
B open cable end

ART1420102	K356-0200 /120	Length: 2 m

K642
SC, L1B 8p, open, TR

Cable between signal input/measurement module and sensor, programmable TEDS chip integrated in the cable

Connectors
A Plug   LEMO 1B   8-pole   code G
B open cable end

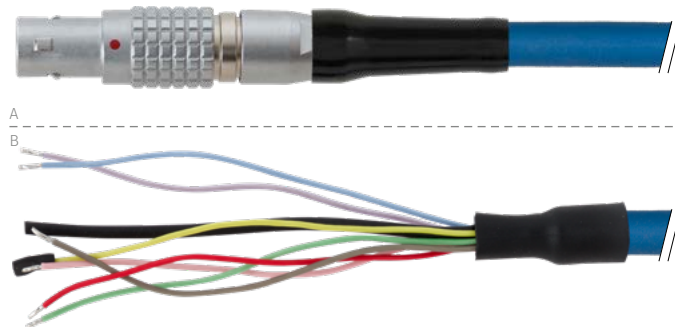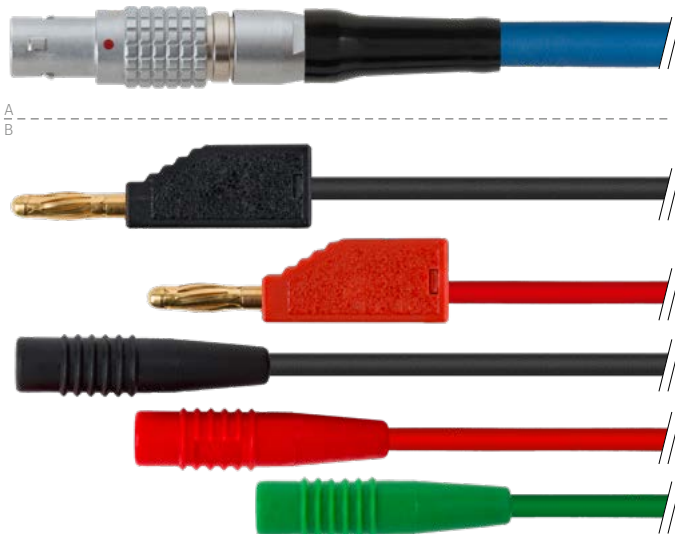| ART1420112	K642-0120	Length: 1.2 m
ART1420113	K642-0500	Length: 5 m
ART1420115	K642-1000	Length: 10 m

K643
SC, L1B 8p, B, TR

Cable between signal input/measurement module and sensor, programmable TEDS chip integrated in the cable

Connectors
A Plug   LEMO 1B   8-pole   code G
B Banana plugs and connectors

ART1420500	K643-0120	Length: 1.2 m
ART1420501	K643-0500	Length: 5 m

Thermo MC Module Signal Cables

K162
SC, L2B 16p, open

Thermocouple cable for connecting
THMC 8/THMC 16 measurement modules

Connectors
A NiCr-Ni multi-connector   LEMO 2B   16-pole   code G
B 8 × open cable end

ART0201092	K162-0200	Length: 2 m

K163
SC, L2B 16p, TH Type K

Thermocouple cable for connecting
THMC 8/THMC 16 measurement modules

Connectors
A NiCr-Ni multi-connector   LEMO 2B   16-pole   code G
B 8 × type K miniature thermo connectors

ART1060601	K163-0100	Length: 1 m
ART0201149	K163-0200	Length: 2 m

OUT Module Signal Cable

K124

SC, L1B 2p, open

Signal cable for OUT module

Connectors
A Plug   LEMO 1B   2-pole   code A
B open cable end

ART0201187	K124-0200	Length: 2 m
ART0201188	K124-0500	Length: 5 m
ART0201189	K124-1000	Length: 10 m

A
B

Plugs

K74

CAN termination resistor, 120 Ohm
Plug LEMO 0B 5-pole code G

ART0201050	K74

K87

Blind plug LEMO 0B, code A for
protecting signal input connectors

ART0201087	K87

K166

Blind plug for protecting Thermo signal inputs

ART0201526	K166

Protection Plug

LEMO 1B Code A

Blind plug LEMO 1B, code A
for protecting signal inputs

ART1030601	Protection Plug

LEMO 0B Plug 6-pin

Code-A plug for customized cable assembly
e. g. for ADMM signal inputs; suitable for cross sections
from 3.3 mm to 4.2 mm, incl. black bend relief

ART0201088	Plug 6-pin

HV Sensor Cables

K901
SC, R2P 8p, open

Connection cable between an HV analog measurement module and four sensors (without sensor supply) with measurement voltages up to 90 V, shielding per channel for suppressing interferences

Connectors
A multi-connector LEMO Redel 2P 8-pole code B
B 4 × open cable end, 2 wires + shield each

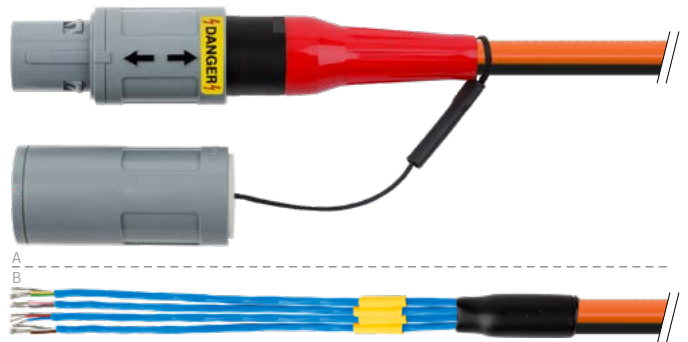|		
ART1423800	K901-200	Length: 2 m
ART1423801	K901-300	Length: 3 m

K910
SC, R2P 8p, open

Connection cable between an HV analog measurement module and four sensors (without sensor supply) with measurement voltages up to 1,000 V, shielding per channel for suppressing interferences

Connectors
A multi-connector LEMO Redel 2P 8-pole code D
B 4 × open cable end, 2 wires + shield each

ART1423700	K910-0200	Length: 2 m
ART1423701	K910-0300	Length: 3 m

K920
SC, R2P 8p, open

Connection cable between an HV analog measurement module with sensor supply and two sensors

Connectors
A multi-connector LEMO Redel 2P 8-pole code C
B 2 × open cable end, 4 wires each

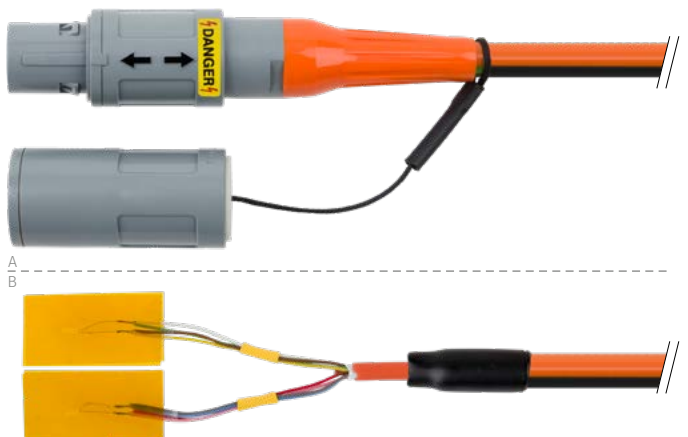|		
ART5810400	K920-0200	Length: 2 m
ART5810401	K920-0300	Length: 3 m

K950
SC, R2P 8p, PT100

Connection Cable between an HV-PT measurement module and 2 × HV PT100 sensors

Connectors
A multi-connector LEMO Redel 2P 8-pole code C
B 2 × PT100 sensor

ART5810200	K950-0250	Length: 2.5 m

K940

SC, R2P 8p, STC

Surface thermocouple cable for use in high-voltage environments; 4x high-voltage sensor, type K, non-insulated measuring tips
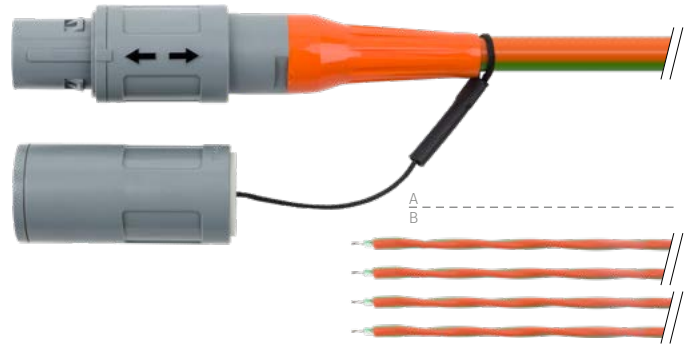
Connectors

A NiCr-Ni multi-connector LEMO Redel 2P 8-pole code B
B 4 × non-insulated measuring tip

ART5810100	K940-0240	Length: 2.4 m

K941

SC, R2P 8p, STC, i10

Surface thermocouple cable for use in high-voltage environments; 4 × high-voltage sensor, type K, insulated measuring tips with heat-shrink sleeve protection
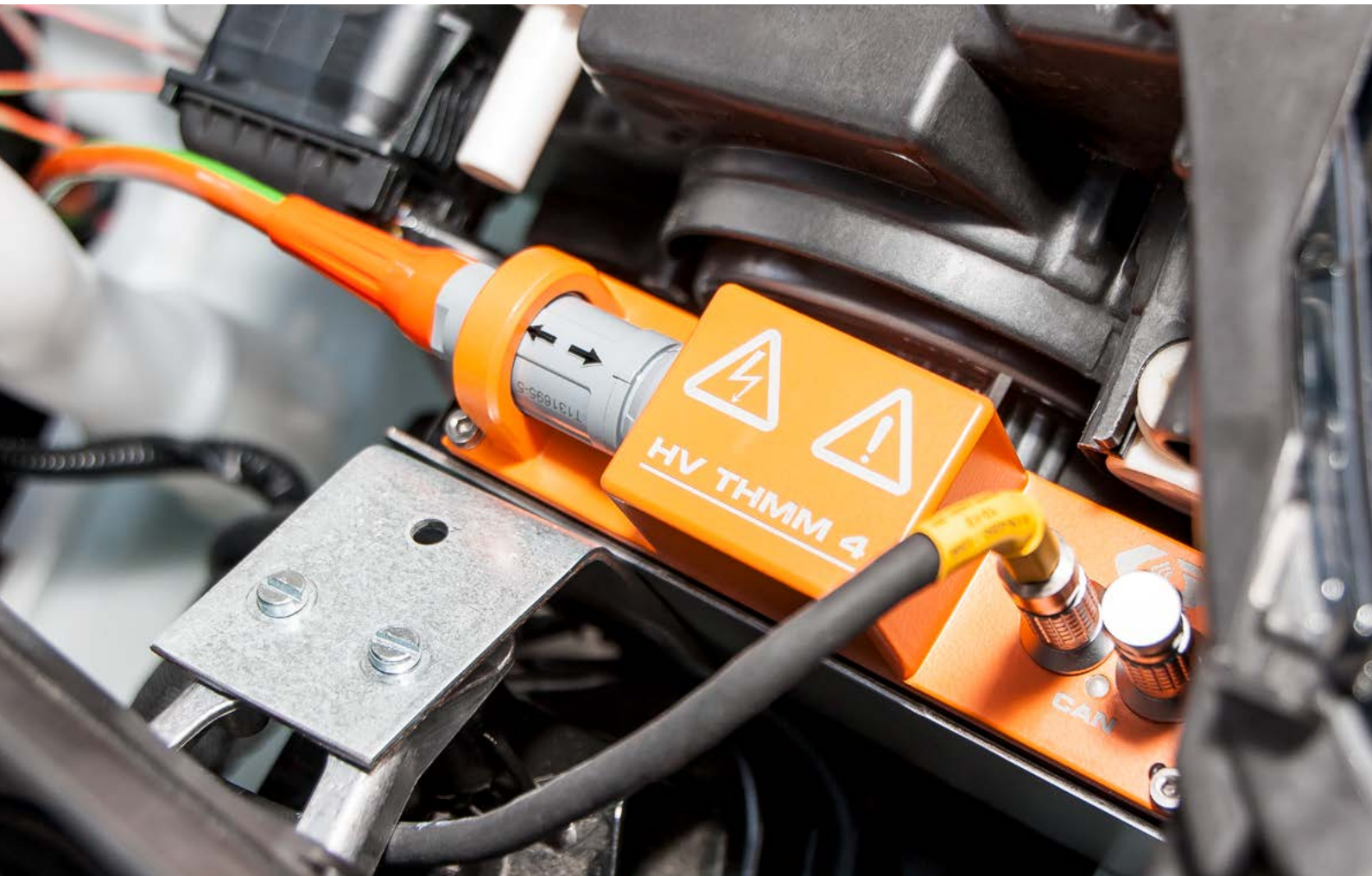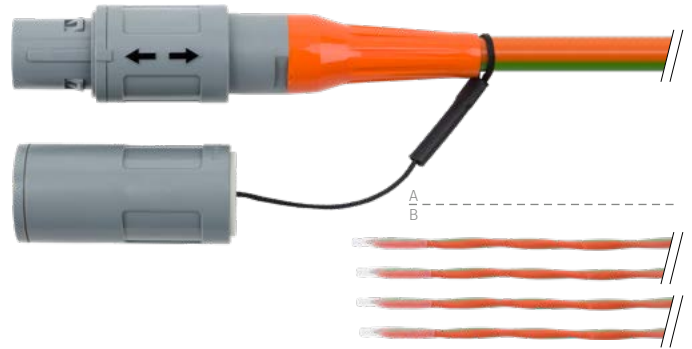
Connectors

A NiCr-Ni multi-connector LEMO Redel 2P 8-pole code B
B 4 × insulated measuring tip

ART5810105	K941-0240	Length: 2.4 m

PCMM Cables and Plugs

K300
for PCMM Power In

Power supply cable for
Power Control MiniModule

Connectors
A Socket Fischer S104 3-pole
B Banana plugs

ART0202850	K300-0200	Length: 2 m

K301
for PCMM Power Out

Voltage output cable for
Power Control MiniModule

Connectors
A Plug Fischer S104 3-pole
B Banana sockets

ART0202851	K301-0100	Length: 1 m

K302
PCMM Config/Ext Plug

Configuration plug (Fischer, 7-pole) for PCMM to determine
which supply line is switched by which signal

ART0202852	K302

K303
PCMM Test Plug

Test plug (Fischer, 2-pole) for PCMM; this plug switches
the power supply on, regardless of configuration and
switching signals

ART0202853	K303

K304
PCMM Config/Ext Plug

Configuration plug (Fischer, 7-pole) for PCMM:
KEY_ON (Kl. 15) switches the logger connected to terminal
POWER LOGGER; the control signal (LOG_SIGNAL) from the
logger switches terminal POWER OUT SWITCHED.

ART1030700	K304

K89
CC, L0B 5p, F102 7p

Connection cable between CAN module and PCMM

Connectors
A Plug LEMO 0B 5-pole code G
B Plug Fischer F102 7-pole

ART0201138	K89-0050	Length: 0.5 m

Mounting Components
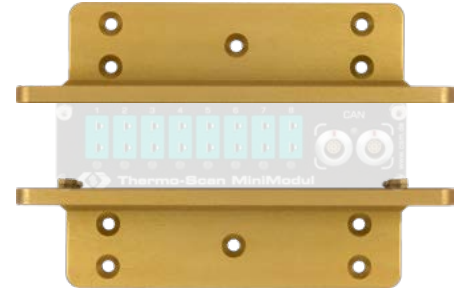
Mounting Material MiniModules

Mounting Angle SCS female

Mounting angle SCS (female) for mounting MiniModules in Slide Case Small (SCS) housings

ART1240101	Mounting Angle SCS female

Mounting Angle SCS male

Mounting angle SCS (male) for mounting MiniModules in Slide Case Small (SCS) housings

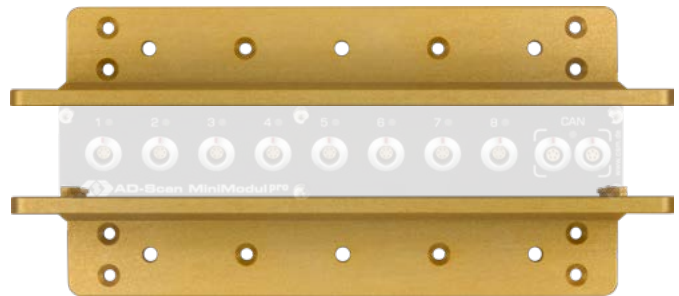| ART1240100	Mounting Angle SCS male

Mounting Angle SCL female

Mounting angle SCL (female) for mounting MiniModules in Slide Case Large (SCL) housings

ART0201548	Mounting Angle SCL female

Mounting Angle SCL male

Mounting angle SCL (male) for mounting MiniModules in Slide Case Large (SCL) housings

ART0201547	Mounting Angle SCL male

Adapter Plate Slide Case

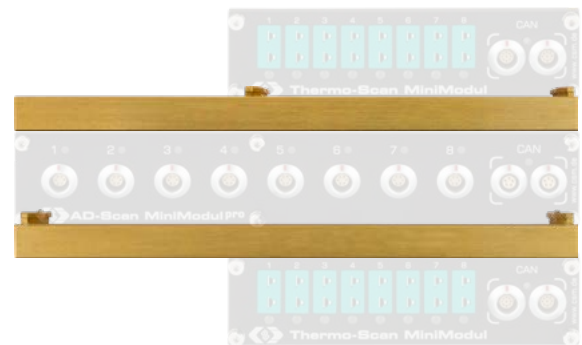Adapter plate SCL (female) on SCS (male) for connecting differently-sized MiniModules in Slide Case housings

ART0201541	Adapter Plate Slide Case

Adapter Plate Slide Case

Adapter plate SCL (male) on SCS (female) for connecting differently-sized MiniModules in Slide Case housings

| ART0201540	Adapter Plate Slide Case

Innovative Measurement and Data Technology

Mounting Material Test Bench Modules (TBM)

19" Mounting Frame

19" frame for mounting 19" test bench modules

Height: 3 U (approx. 133 mm)

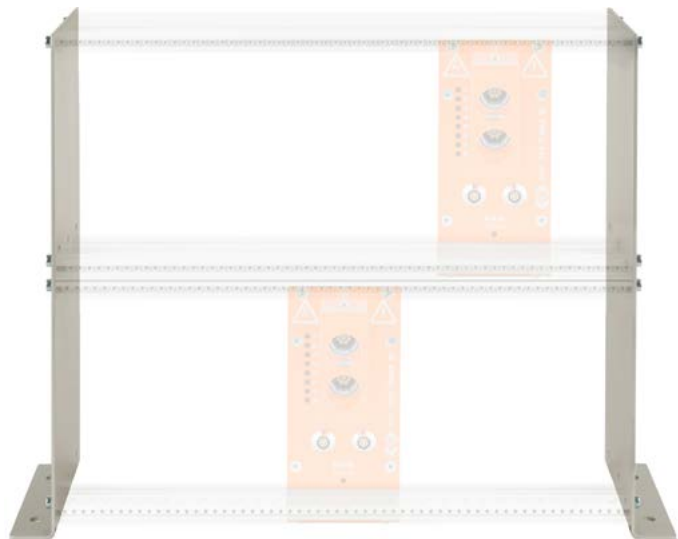|		
ART1340100	3 U × 24 HP	approx. 133 mm × 122 mm
ART1340101	3 U × 60 HP	approx. 133 mm × 305 mm
ART1340102	3 U × 84 HP	approx. 133 mm × 427 mm
ART1340103	3 U × 95 HP	approx. 133 mm × 483 mm
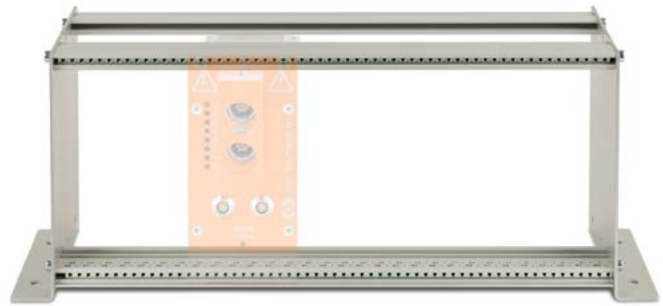
19" Mounting Angle

Mounting angle kit for mounting two 19" mounting frames above one another. This allows the vertical arrangement of two 19" mounting frames.

Height: 6 U (approx. 266 mm)

ART1340201	6 U	approx. 266 mm

CAN Interface

CSMcan
1ch CAN High Speed Interface

Single-channel USB interface, data transfer rate up to 2 Mbit/s. For CAN-based CSM measurement modules in combination with measurement software vMeasure CSM and configuration tool CSMconfig.

ART1321000	CSMcan	approx. 65 × 40 × 20 mm

Sales contacts worldwide

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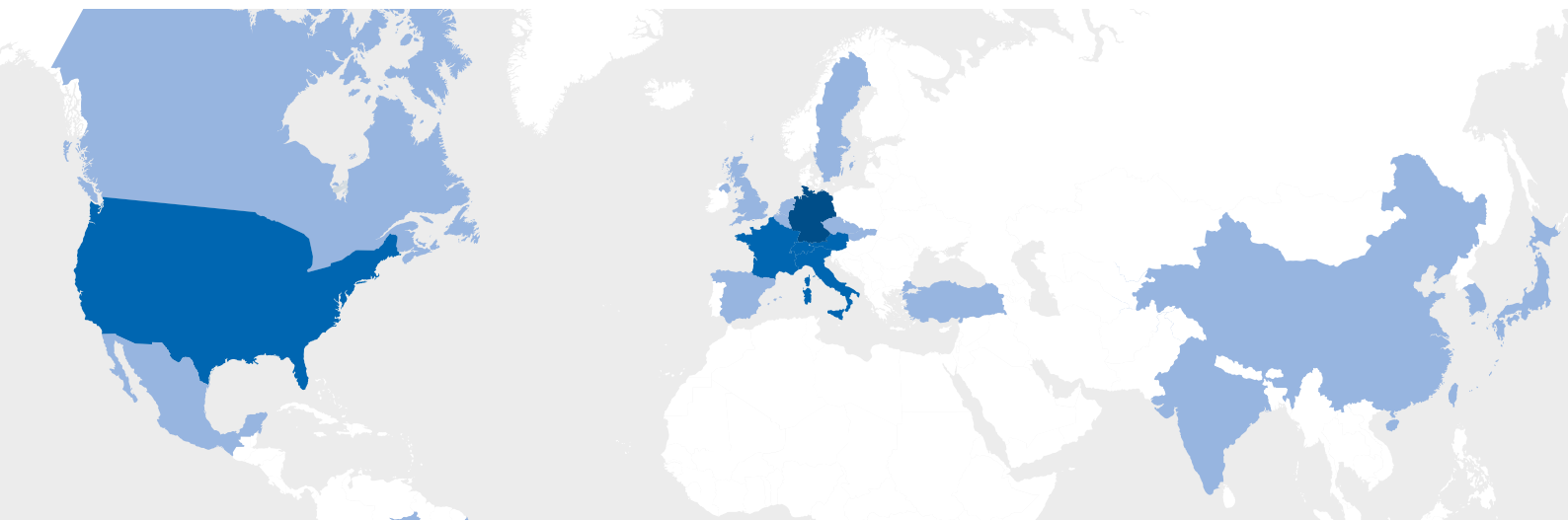Phone: +33 450 - 95 86 44
E-Mail: info@csm-produits.fr

Sales Partners

Our sales partners guarantee worldwide availability. The contact details can be found on our website on the page »Contact«.

Europe:	**Asia:**
Belgium	China
Great Britain	India
Netherlands	Japan
Sweden	Korea
Slovakia	
Czech Republic	
Turkey	

Service & Support

Do you have specific questions or technical suggestions for the optimal use of the CSM measurement technology? Feel free to contact us, our Service & Support is at your disposal.

Take advantage of our telephone hotline:

+49 711 - 77 964-444

Or contact us over our website: **www.csm.de** and look for the heading »Support«.

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